

## PATENT ABSTRACTS OF JAPAN

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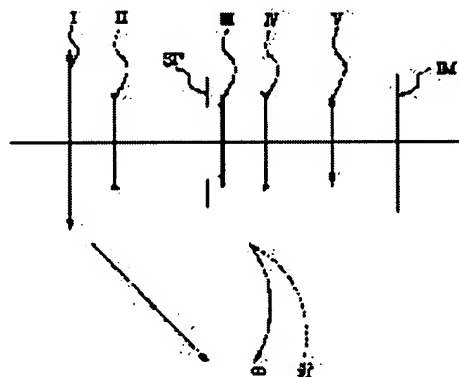
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## (54) REAR FOCUS TYPE ZOOM LENS

## (57)Abstract:

PURPOSE: To provide a zoom lens which is small in size although the zoom ratio is about 20 and the field angle at the wide-angle end is  $\geq 60^\circ$ .

CONSTITUTION: This rear focus type zoom lens has a 1st lens group I which is fixed and has positive refracting power, a 2nd lens group II with negative refracting power, a 3rd lens group III with positive refracting power, and a 4th lens group IV with negative refracting power in order from the object side; and zooming is performed by moving at least the 2nd lens group II and 4th lens group IV and focusing is performed by moving the 4th lens group IV.



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